

## B-200 (UC-12B) - LARC 09/30/13

**Aircraft:** [B-200 \(UC-12B\) - LARC](#) ([See full schedule](#))

**Flight Number:** G-LiHT/Hyplant Science Flight #2

**Payload Configuration:** G-LiHT/Hyplant

**Nav Data Collected:** No

**Total Flight Time:** 3.3 hours

**Submitted by:** Gregory L. Slover on 10/18/13

**Flight Segments:**

<b>From:</b>	KLFI	<b>To:</b>	KLFI
<b>Start:</b>	09/30/13 17:13 Z	<b>Finish:</b>	09/30/13 20:33 Z
<b>Flight Time:</b>	3.3 hours		
<b>Log Number:</b>	<a href="#">13B010</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Steven Platnick - NASA - SMD - ESD EOS Project Scientist		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	<p>G-LiHT sortie to the Raleigh-Durham / Duke Forrest target area. Overall, data was taken on all runs, many of which had promising results but there was still 20-40% cloud coverage during several runs. The morning weather reports and forecasts indicated that Duke Forrest was better than the Parker tracks WRT cloud coverage. At the time, there was cloud coverage forecast with an expectation that the clouds would move east and leave a reasonable hole to collect data. A decision to go was delayed each hour until confidence in that hole was better than 50-50. This left the afternoon data collection as the only option when the decision to go was made. Enroute to the area there were scattered clouds with 4000' bases and 6000' tops. The Hyplant instrument had an anomaly that required further investigation as we approached the first run, two orbit delays were flown to investigate and get it running again. We did one run in the solar principal plane at 2000' AGL followed by all 8 N-S runs. The final principal plane run was flown 3 times as the first two each had a cloud over the instrumented tower. Landing back at KLFI uneventful. A visual overflight of the Duke Campus on return capped off the flight, this may provide a good opportunity for media at the university.</p>		

### Flight Hour Summary:

	13B010	14B004
<b>Flight Hours Approved in SOFRS</b>	30	
<b>Flight Hours Previously Approved</b>		0.9
<b>Total Used</b>	8.6	20.5
<b>Total Remaining</b>		-19.6

### 14B004 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">10/24/13</a>	G-LiHT/Hyplant Science Flight #3	Science	2.7	2.7	-1.8	
<a href="#">10/24/13</a>	G-LiHT/Hyplant Science Flight #3	Ferry	0.8	3.5	-2.6	
<a href="#">10/25/13</a>	G-LiHT/Hyplant Science Flight #4	Science	2.1	5.6	-4.7	
<a href="#">10/25/13</a>	G-LiHT/Hyplant Science Flight #4	Science	1.6	7.2	-6.3	
<a href="#">10/25/13</a>	G-LiHT/Hyplant Science Flight #4	Science	2.1	9.3	-8.4	
<a href="#">10/26/13</a>	G-LiHT/Hyplant Science Flight #5	Science	2.2	11.5	-10.6	
<a href="#">10/26/13</a>	G-LiHT/Hyplant Science Flight #5	Science	2	13.5	-12.6	
<a href="#">10/26/13</a>	G-LiHT/Hyplant Science Flight #5	Science	2.3	15.8	-14.9	

<a href="#">10/27/13</a>	G-LiHT/Hyplant Science Flight #6	Science	2	17.8	-16.9
<a href="#">10/27/13</a>	G-LiHT/Hyplant Science Flight #6	Science	2.6	20.4	-19.5
<a href="#">10/28/13</a>	G-LiHT/Hyplant Science Flight #7	Ferry	0.1	20.5	-19.6

**Source URL:** [https://airbornescience.nasa.gov/flight\\_reports/B-200\\_UC-12B\\_-\\_LARC\\_09\\_30\\_13#comment-0](https://airbornescience.nasa.gov/flight_reports/B-200_UC-12B_-_LARC_09_30_13#comment-0)

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*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

#### 13B010 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">09/04/13</a>	G-LiHT/Hyplant ICF EMI/EMC	Science	1.4	1.4	28.6	
<a href="#">09/06/13</a>	G-LiHT/Hyplant ICF EMI/EMC	Science	1.4	2.8	27.2	
<a href="#">09/27/13</a>	G-LiHT/Hyplant Science Flight #1	Science	1.5	4.3	25.7	
<a href="#">09/27/13</a>	G-LiHT/Hyplant Science Flight #1	Ferry	1	5.3	24.7	
<a href="#">09/30/13</a>	G-LiHT/Hyplant Science Flight #2	Science	3.3	8.6	21.4	